

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2005/000246

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B21D 5/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	AU 199859441 B2 (CAMPBELL, J.S.), 31 May 2001 (31.05.2001), figures 1,5, abstract --	1-8
A	WD 0243886 A1 (ORTIC AB), 6 June 2002 (06.06.2002), figure 1, abstract --	1-8
A	EP 1245302 A1 (DREISTERN-WERK MASCHINENBAU GMBH & CO. KG), 2 October 2002 (02.10.2002), figure 1, abstract --	1-8
A	WD 03041886 A1 (ORTIC AB), 22 May 2003 (22.05.2003), figure 1, abstract -- -----	1-8

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 May 2005

Date of mailing of the international search report

07-07-2005

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AU 199859441 B2 31/05/2001 NONE

WO	0243886	A1	06/06/2002	AU	2429002 A	11/06/2002
				BR	0115757 A	03/02/2004
				CA	2429811 A	06/06/2002
				CN	1478001 A,T	25/02/2004
				CZ	20031480 A	14/01/2004
				DE	20122096 U	29/04/2004
				EE	200300253 A	15/08/2003
				EP	1339508 A	03/09/2003
				HU	0302383 A	28/10/2003
				PL	361674 A	04/10/2004
				SE	520913 C	09/09/2003
				SE	521076 C	30/09/2003
				SE	0004409 A	30/05/2002
				SE	0103228 A	30/05/2002
				US	20040040357 A	04/03/2004

EP	1245302	A1	02/10/2002	SE	1245302 T3	
				AT	283123 T	15/12/2004
				DE	50104595 D	00/00/0000
				DK	1245302 T	04/04/2005

WO	03041886	A1	22/05/2003	BR	0212741 A	12/04/2005
				CA	2461664 A	22/05/2003
				CN	1558802 A	29/12/2004
				CZ	20040417 A	12/01/2005
				EE	200400071 A	15/06/2004
				EP	1439920 A	28/07/2004
				HU	0401938 A	28/01/2005
				JP	2005508753 T	07/04/2005
				SE	521864 C	16/12/2003
				SE	0103229 A	28/03/2003
				US	20040173002 A	09/09/2004

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The following separate inventions were identified:

I: Claims 1-8 are directed to a method for forming profiles in a production line where the cross-section of the profiles varies along the length of the metal strip. Edge cutters and roll-forming units can be individually displaced sideways relative to the metal strip. The edge cutters and the roll-

.../...

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 - 8

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

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III.

forming units are individually controlled to follow the lines or extent of the side edges after forming a corner of the strip closer to the edge of the completed strip.

II: Claims 9-12 are directed to a production line for continuous forming of a profile with varying cross-section. After the roll-forming section a bending station is placed having rollers arranged in order to produce a thinner profile which can be bent or twisted.

The present application has been considered to contain two inventions which are not linked such that they form a single general inventive concept, as required by Rule 13 PCT for the following reasons:

Claims 1-8 are intended to solve the problem of performing economic favourable production of profiles with variable shape according to claim 1.

Claims 9-12 are intended to solve the problem of manufacturing bent profiles according to claim 9.

Since the booth problems and solutions differs, no unifying inventive concept is present and consequently, the inventions are not linked such that they form a single general inventive concept, as required by Rule 13 PCT.

Thus, the application lacks unity of invention.